

PS-V701/V701P

SERVICE MANUAL

AEP Model
PS-V701

UK Model
PS-V701P



PS-V701P is the STEREO
TURNTABLE SYSTEM
in LBT-V701CD/V701CDG

This photo is PS-V701.

SPECIFICATIONS

Turntable
Platter 30 cm (12 in.)
Motor DC servo motor
Drive system Belt drive
Speed 33 $\frac{1}{3}$ rpm/45 rpm switchable
Wow and flutter 0.15% (WRMS)
Signal-to-noise ratio 65 dB (DIN-B)
Automatic system Return, reject, lead in.

Tonearm
Type Dynamically balanced
Pivot-to stylus length 206 mm (7 $\frac{7}{8}$ in.)
Overall arm length 235 mm (9 $\frac{3}{8}$ in.)

Cartridge
Type Moving magnet type
Frequency response 20 Hz- 20kHz
Stylus ND-155G

General
Dimensions 355 × 100 × 340 mm (w/h/d)
(14 × 4 × 13 $\frac{1}{2}$ inches)
Weight Approx. 2.6 kg (4 lb 14 oz)
Power requirements 220 V AC, 50/60 Hz
Power consumption 2 W
Accessory supplied 45-rpm adaptor (1)
Optional accessory Replacement stylus ND-155G

Design and specifications subject to change without notice.

Note
This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

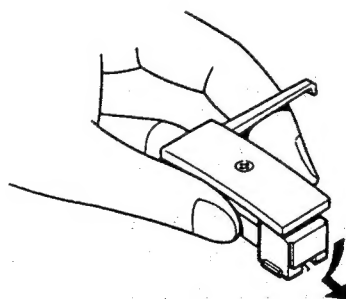
Note for Cartridge

Be careful not to use any cartridge except for specified one (Part No.: 1-549-135-11) as balance weight of pick up arm assy is fixed.

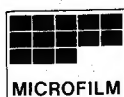
REPLACING THE STYLUS

Replace the stylus after about 400 hours of use because using a worn stylus will damage records. An ND-155G replacement stylus is available at your Sony dealer. Be sure to turn the amplifier off before proceeding with replacement.

- 1 While holding the cartridge, detach the stylus assembly as illustrated.
- 2 Insert the new stylus into the cartridge.

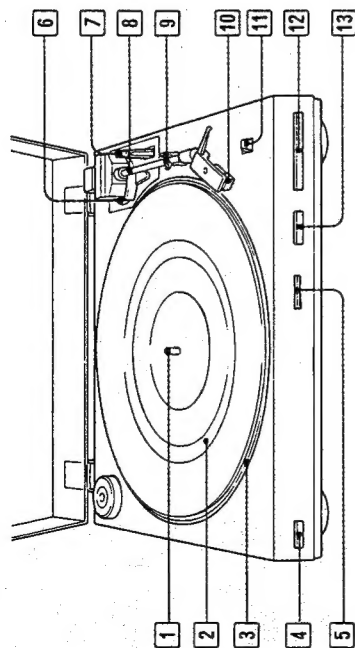


STEREO TURNTABLE SYSTEM
SONY®



SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS



1 Center spindle

2 Rubber mat

3 Turntable platter

4 POWER switch

5 SPEED select button

Allows selection of 45 rpm or 33 rpm turntable speed.

6 Drop point adjustment hole

7 Cueing lever (▼/▼)

8 Tonearm

9 Arm rest

10 Cartridge

11 SIZE SELECTOR

Allows selection of 17 cm (7 inch) or 30 cm (12 inch) records.

12 ◀(start) button

13 ■ (stop) button

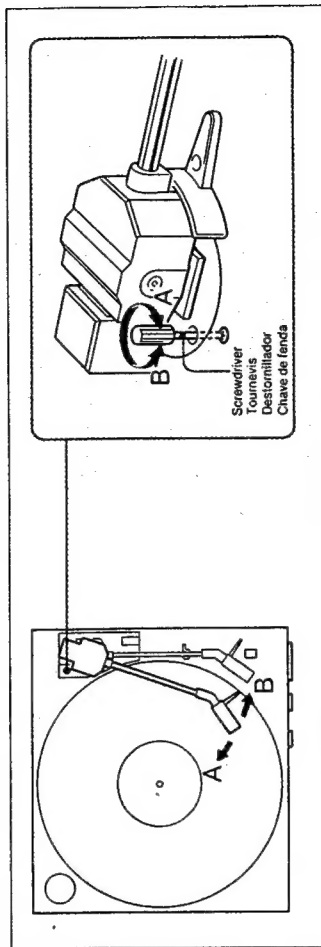
1-2. TONEARM DROP-POINT ADJUSTMENT

The tonearm drop-point during auto play has been factory-adjusted. If necessary, readjust it as follows.

To move the drop-point toward A, turn the adjustment screw clockwise with a screwdriver.

To move the drop-point toward B, turn the adjustment screw counterclockwise with a screwdriver.

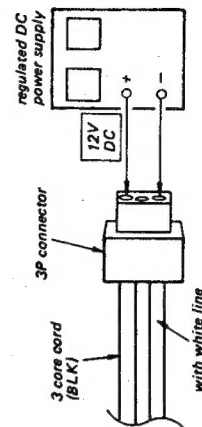
If the tonearm does not return to the arm rest automatically after play
Turn the adjustment screw counterclockwise.



REPAIRING PRECAUTION (PS-V701 only)

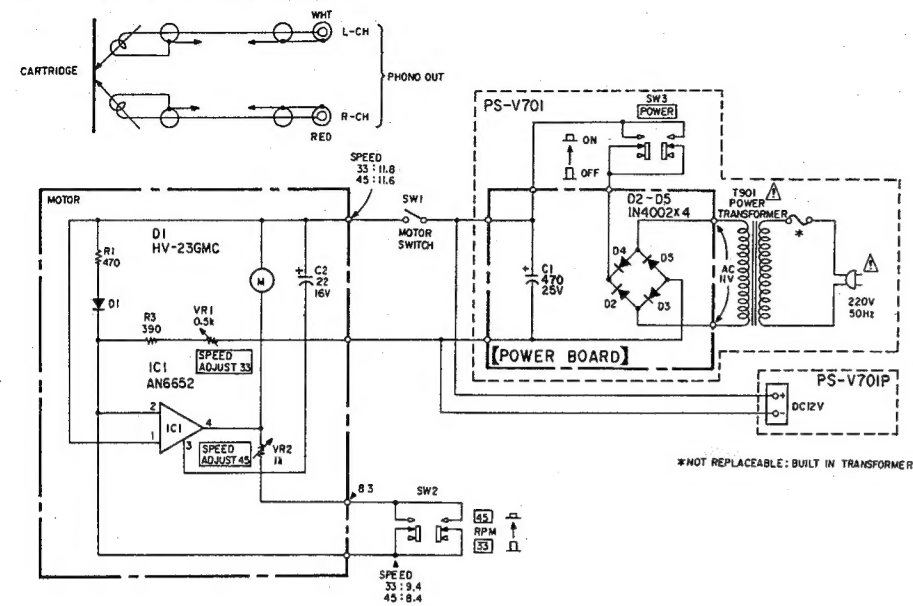
[To supply B+ voltage]

The power of this unit is fed from TA-V701. Because of this, connect the regulated DC power supply as illustrated right when this unit alone operates.



SECTION 2
DIAGRAMS

2-1. SCHEMATIC DIAGRAM



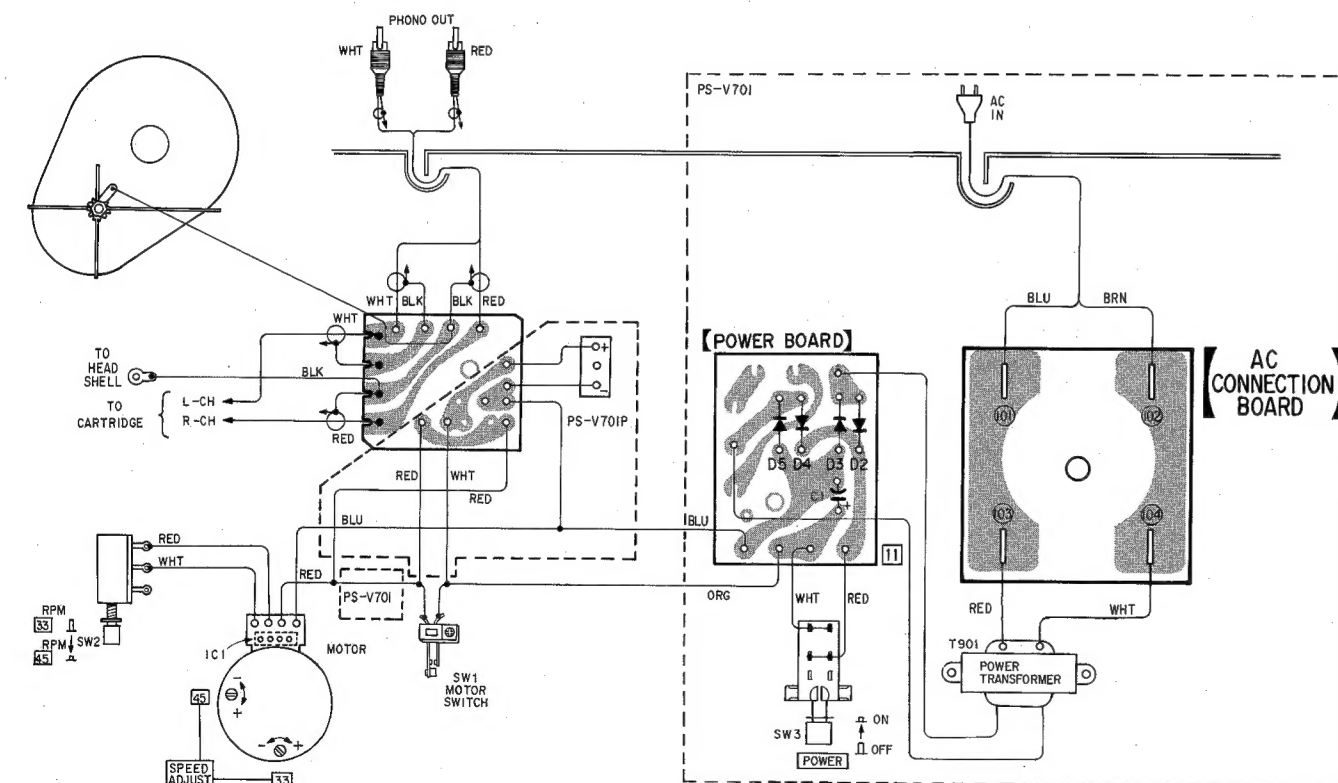
Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Switches:

| Ref. No. | Switch | Position |
|----------|------------------|----------|
| SW1 | MOTOR | OFF |
| SW2 | SPEED | 33 |
| SW3 | POWER | OFF |
| SW4 | VOLTAGE SELECTOR | 120V |

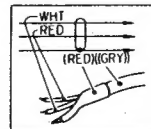
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

2-2. WIRING DIAGRAM



Note:

- Color code of sleeving over the end of the jacket.



○ — : parts extracted from the component side.

SECTION 3
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

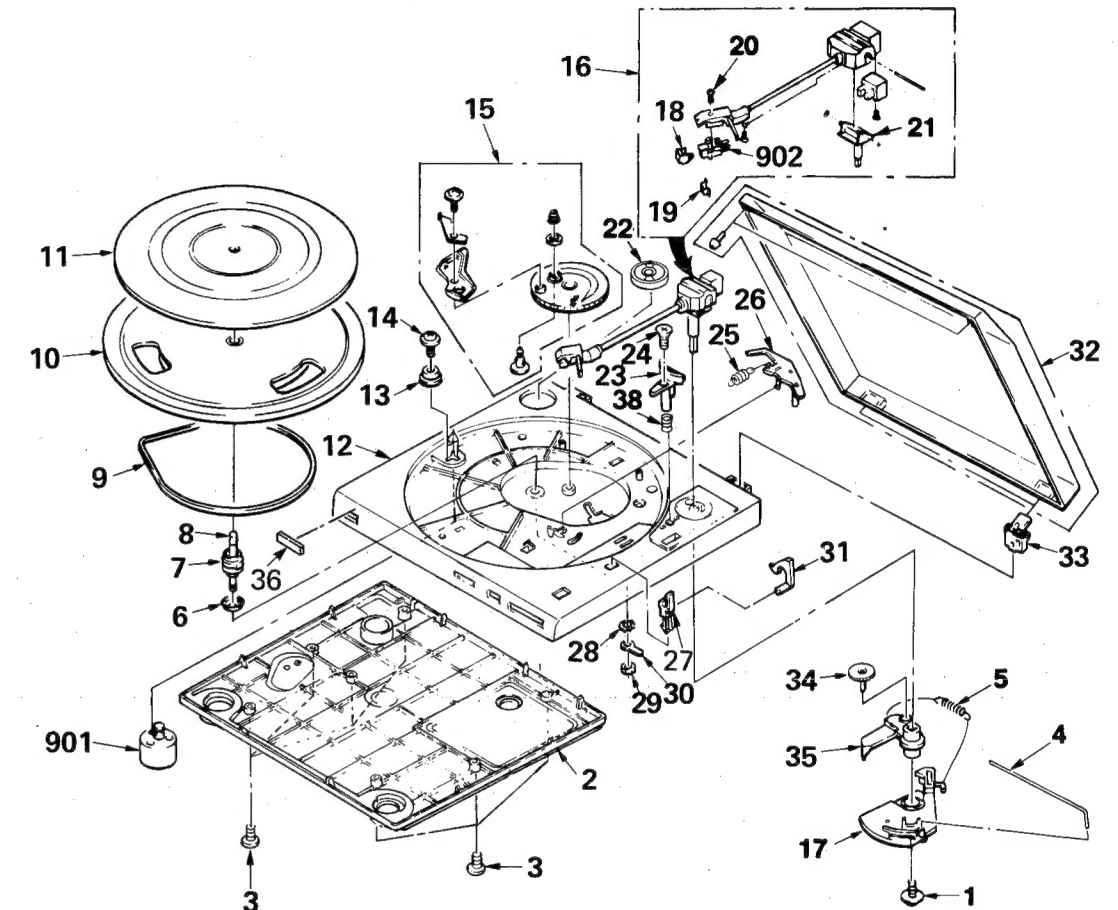
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example: (RED) ... KNOB, BALANCE (WHITE)

↑
Cabinet's Color

↑
Parts Color

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

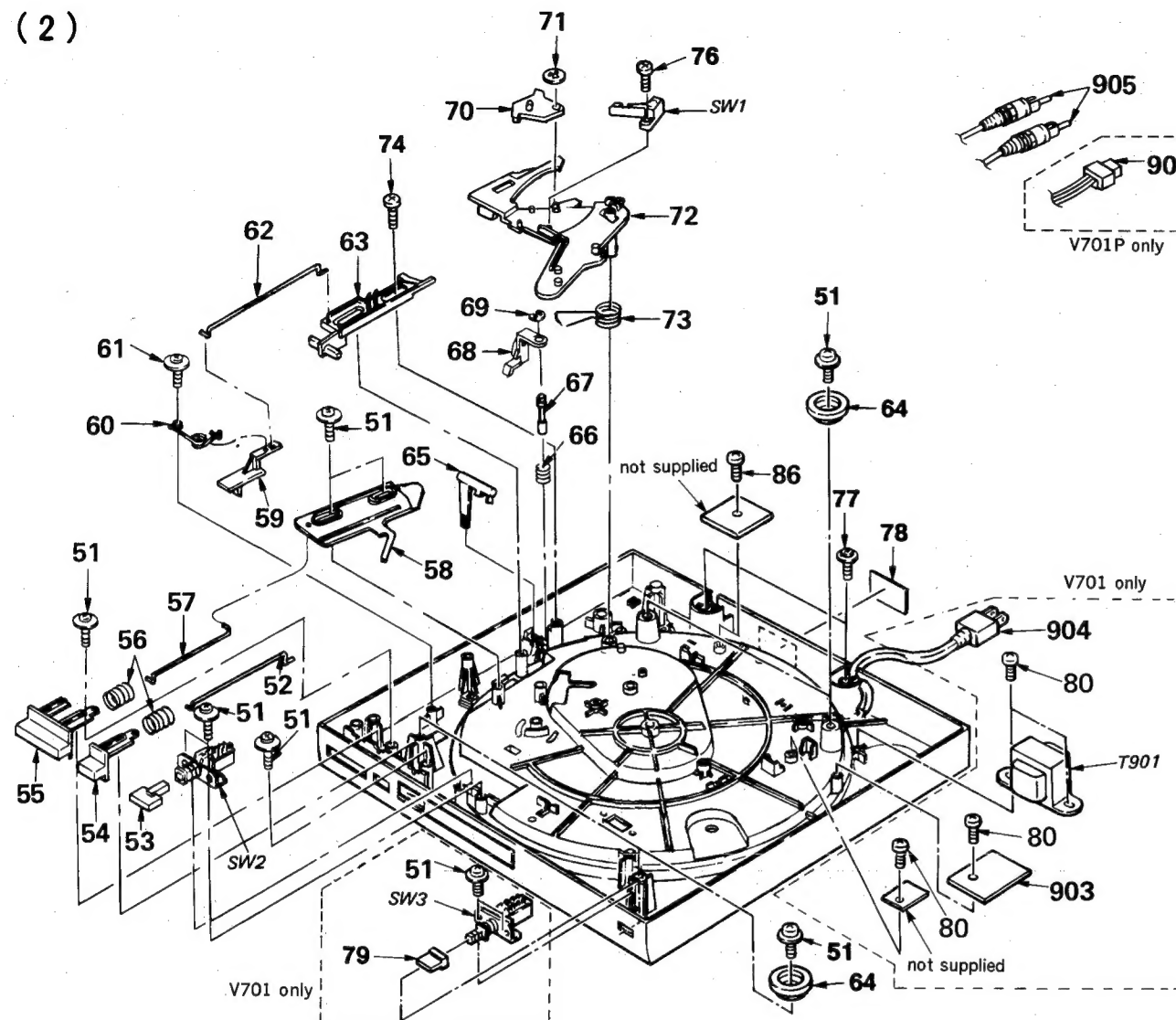
(1)



| No. | Part No. | Description | Remarks | No. | Part No. | Description | Remarks |
|-----|---------------|-----------------------------|---------|-----|--------------|---------------------|---------|
| 1 | 4-896-509-01 | SCREW (7-BID 3012 ZN3A 12D) | | 21 | 4-895-464-01 | P.U. HINGE BRACKET | |
| 2 | *4-896-217-01 | BOARD, BOTTOM | | 22 | 3-701-806-00 | ADAPTOR, 45 | |
| 3 | 7-685-647-79 | SCREW | | 23 | 4-896-258-01 | PLATFORM, LIFT | |
| 4 | *4-896-264-01 | ROD, TRIP | | 24 | 7-621-561-49 | SCREW | |
| 5 | 4-895-460-01 | ADJUST SPRING | | 25 | 4-896-262-01 | SPRING | |
| 6 | 4-896-210-01 | WASHER | | 26 | 4-896-505-01 | LEVER, REJECT | |
| 7 | 4-896-233-01 | GEAR, T/T | | 27 | 4-895-417-01 | P.U. REST | |
| 8 | 4-896-232-01 | SPINDLE | | 28 | 7-623-424-07 | W GEAR 0003 ZN3A | |
| 9 | 4-880-655-01 | BELT | | 29 | 7-684-024-04 | NUT 50 ZN3A | |
| 10 | 4-909-060-01 | TURNTABLE | | 30 | 4-896-508-01 | TERMINAL, GROUND | |
| 11 | 4-895-478-01 | INNER PLATE | | 31 | 4-895-418-01 | P.U. TUBE HOOK | |
| 12 | 4-896-506-01 | (V701) ... CABINET | | 32 | 4-895-480-01 | DUST COVER ASSY | |
| | 4-896-511-01 | (V701P) ... CABINET | | 33 | 4-895-410-01 | HINGE ASSY | |
| 13 | 4-896-507-01 | GROMMET (A) | | 34 | 4-895-458-01 | ADJUST CAM | |
| 14 | 7-685-646-79 | SCREW | | 35 | 4-896-223-01 | LINK (A), RETURN | |
| 15 | X-4895-409-1 | GEAR ASSY, CAM | | 36 | 4-925-161-21 | EMBLEM (4-A), SONY | |
| 16 | X-4895-410-1 | ARM ASSY | | 38 | 4-896-267-01 | SPRING (A) | |
| 17 | 4-896-224-01 | LINK (B), RETURN | | 901 | 1-541-568-11 | MOTOR | |
| 18 | 1-549-132-11 | BEAM | | 902 | 1-549-135-11 | CARTRIDGE (ND-155G) | |
| 19 | 4-895-474-01 | COVER, BEAM | | | | | |
| 20 | 7-627-553-98 | SCREW | | | | | |

SECTION 4 ELECTRICAL PARTS LIST

(2)



Note: The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

| No. | Part No. | Description | Remarks | No. | Part No. | Description | Remarks |
|-----|---------------|-------------------|---------|------|---------------|--|---------|
| 51 | 7-685-646-79 | SCREW | | 71 | 4-303-605-00 | PUSH NUT DIA.3 | |
| 52 | 4-896-261-01 | WIRE, REJECT | | 72 | 4-896-218-01 | ARM, CONTROL | |
| 53 | 4-896-241-01 | BUTTON, SPEED | | 73 | 4-896-247-01 | SPRING | |
| 54 | 4-896-240-01 | BUTTON, STOP | | 74 | 4-896-510-01 | SCREW (7-BID 304 ZN3A) | |
| 55 | 4-896-242-01 | BUTTON, START | | 76 | 7-685-104-19 | SCREW | |
| 56 | 4-896-255-01 | SPRING | | 77 | 4-896-256-01 | SCREW ASSY | |
| 57 | 4-896-216-01 | WIRE, CONTROL ARM | | 78 | *4-928-260-01 | (V701P).....LABEL, MODEL NUMBER | |
| 58 | 4-896-215-01 | LEVER, CONTROL | | | *4-928-259-01 | (V701:AE1)....LABEL, MODEL NUMBER (AE) | |
| 59 | 4-896-243-01 | KNOB, SPEED | | | *4-928-259-11 | (V701:AE2)....LABEL, MODEL NUMBER (AE) | |
| 60 | 4-896-244-01 | SPRING | | 79 | 4-895-896-01 | (V701)...BUTTON, POWER | |
| 61 | 4-896-245-01 | SCREW | | 80 | 7-685-647-79 | SCREW | |
| 62 | *4-896-213-01 | WIRE, SELECTOR | | 903 | 1-626-640-11 | (V701)...PC BOARD, POWER | |
| 63 | 4-896-214-01 | SELECTOR, SIZE | | 904 | ▲1-555-750-00 | (V701)...CORD, POWER, EULO PLUG | |
| 64 | 4-895-435-01 | FOOT | | 905 | 1-555-116-11 | CORD, CONNECTION | |
| 65 | 4-896-212-01 | LEVER, CUE | | 906 | 1-557-109-21 | (V701P)...CORD, CONNECTION (3 CORE) | |
| 66 | 4-896-251-01 | SPRING (B) | | SW1 | 1-570-666-11 | SWITCH, LEAF | |
| 67 | 4-896-252-01 | SHAFT, ARM LIFT | | SW2 | 1-571-560-11 | SWITCH, PUSH (1 KEY) | |
| 68 | 4-896-253-01 | FORK, LIFT | | SW3 | 1-571-560-11 | (V701)...SWITCH, PUSH (1 KEY) | |
| 69 | 4-896-254-01 | RING (DIA.3), E | | T901 | ▲1-449-291-11 | (V701)...TRANSFORMER, POWER | |
| 70 | 4-896-248-01 | CAM | | | | | |

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
 UA....: μ A...., UPA....: μ PA....,
 UPC....: μ PC, UPD....: μ PD....

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

| Ref.No. | Part No. | Description |
|---------|---------------|-------------------------------------|
| 901 | 1-541-568-11 | MOTOR |
| 902 | 1-549-135-11 | CARTRIDGE (MD-155G) |
| 903 | 1-626-640-11 | (V701)...PC BOARD, POWER |
| 904 | ▲1-555-750-00 | (V701)...CORD, POWER, EULO PLUG |
| 905 | 1-555-116-11 | CORD, CONNECTION |
| 906 | 1-557-109-21 | (V701P)...CORD, CONNECTION (3 CORE) |
| C1 | 1-123-336-00 | (V701)...ELECT 470 20% 25V |
| D2 | 8-719-200-02 | (V701)...DIODE 10E2 |
| D3 | 8-719-200-02 | (V701)...DIODE 10E2 |
| D4 | 8-719-200-02 | (V701)...DIODE 10E2 |
| D5 | 8-719-200-02 | (V701)...DIODE 10E2 |
| SW1 | 1-570-666-11 | SWITCH, LEAF |
| SW2 | 1-571-560-11 | SWITCH, PUSH (1 KEY) |
| SW3 | 1-571-560-11 | (V701)...SWITCH, PUSH (1 KEY) |
| T901 | ▲1-449-291-11 | (V701)...TRANSFORMER, POWER |

ACCESSORY & PACKING MATERIAL

| | |
|---------------|---|
| 3-750-347-11 | (V701)...MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) |
| 3-750-347-41 | (V701)...MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) |
| 3-701-806-00 | ADAPTOR, 45 |
| 4-895-478-01 | INNER PLATE |
| *4-896-515-01 | (V701)...INDIVIDUAL CARTON |